

**What is claimed is:**

1. A mobile communication system which carries out multicast communication by a radio station and a plurality of mobile stations, wherein

5 each of the mobile stations comprises a communication quality measurer configured to measure a communication quality of a signal transmitted from the radio station; and  
the radio station comprises:

a communication quality acquirer configured to acquire  
10 the communication quality from the plurality of mobile stations;

a transmission method changer configured to change a transmission method for at least one of an error encoding rate, the number of repeated bits, an interleave length, the number  
15 of multiple codes and the number of transmission signal repetitions, in accordance with the acquired communication quality; and

a transmitter configured to transmit the signal to the plurality of mobile stations using the changed transmission  
20 method.

2. A radio station for carrying out multicast communication with a plurality of mobile stations, the radio station comprising:

25 a communication quality acquirer configured to acquire a communication quality of a signal transmitted from the plurality of mobile stations by the multicast communication;

a transmission method changer configured to change a transmission method for at least one of an error encoding rate,

the number of repeated bits, an interleave length, the number of multiple codes and the number of transmission signal repetitions, in accordance with the acquired communication quality; and

5       a transmitter configured to transmit the signal to the plurality of mobile stations using the changed transmission method.

10      3. The radio station according to claim 2, wherein  
the communication quality acquirer selects the lowest  
communication quality from among the acquired communication  
qualities; and

15      the transmission method changer changes the transmission  
method in accordance with the selected lowest communication  
quality.

20      4. The radio station according to claim 2, wherein  
the communication quality acquirer calculates an average  
value of the communication qualities acquired from the  
plurality of mobile stations; and

      the transmission method changer changes the transmission  
method in accordance with a difference between the calculated  
average value and a preset reference value.

25      5. The radio station according to claim 2 further  
comprising a radio resource manager configured to manage a  
situation of a radio resource; and wherein

      the transmission method changer changes the transmission  
method in accordance with the acquired communication quality

and the situation of a radio resource.

6. The radio station according to claim 2, wherein the communication quality includes at least one of a received power,  
5 a signal error rate, an interference signal level and a signal-to-interference ratio.

7. A mobile communication method for carrying out multicast communication by a radio station and a plurality of  
10 mobile stations, the method comprises the steps of:

measuring a communication quality of a signal transmitted from the radio station, in each of the mobile stations;

acquiring the communication quality from the plurality of mobile stations, in the radio station;

15 changing a transmission method for at least one of an error encoding rate, the number of repeated bits, an interleave length, the number of multiple codes and the number of transmission signal repetitions, in accordance with the acquired communication quality, in the radio station; and

20 transmitting the signal to the plurality of mobile stations using the changed transmission method, in the radio station.